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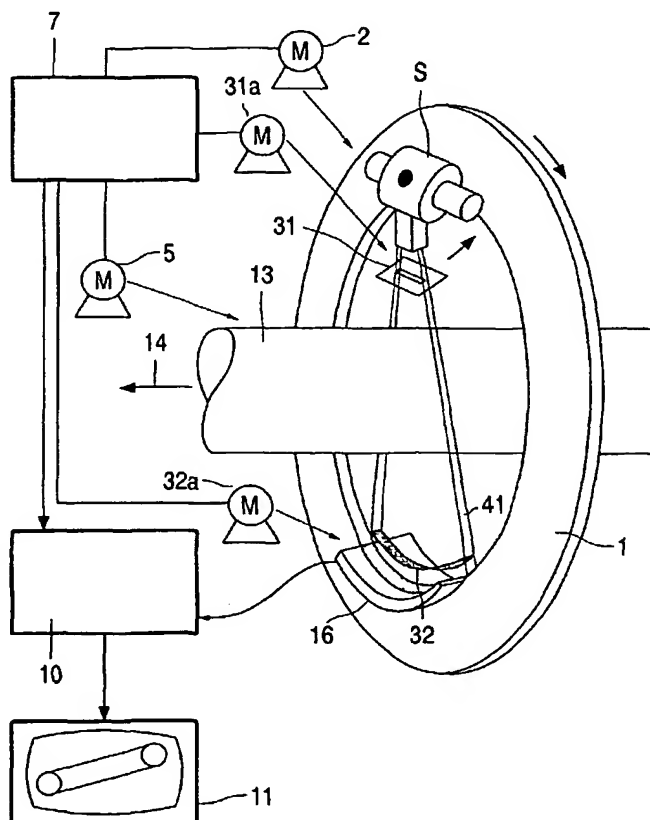
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- (71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).
- (71) Applicant (for all designated States except DE, US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.**
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SCHLOMKA, Jens-Peter** [DE/DE]; c/o Philips Intellectual Property &
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).
HARDING, Geoffrey [GB/DE]; c/o Philips Intellectual
Property & Standards GmbH, Weissshausstr. 2, 52066
Aachen (DE).
- (74) Agent: **MEYER, Michael**; Philips Intellectual Property &
Standards GmbH, Weissshausstr. 2, 52066 Aachen (DE).
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(54) Title: COMPUTED TOMOGRAPHY APPARATUS



(57) Abstract: The invention relates to a computed tomography apparatus (CT apparatus) for imaging by means of radiation having traversed an object to be examined (that is, directly transmitted radiation), as well as by means of radiation scattered by the object to be examined, which apparatus includes a radiation source (S), a detector arrangement (16) and a device whereby the radiation (41a) having traversed the object to be examined can be blocked at least to an extent that the intensity incident on the detector arrangement (16) does not substantially exceed the intensity of radiation (41b) scattered by the object (13) to be examined and incident on the detector arrangement (16). The invention enables the detection of scattered radiation (CSCT mode) which is not affected by crosstalk from the transmitted radiation, even when the detector arrangement does not satisfy severe requirements as regards crosstalk properties and/or is configured as a single-row detector arrangement.

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 49939 A (KOMARDIN OLEG; LAZAREV PAVEL (US); QUANTA VISION (US)) 12 November 1998 (1998-11-12) page 11, line 8 - line 13 page 12, line 5 - line 12 page 13, line 1 - line 15 page 17, line 23 - page 18, line 1 page 24, line 13 - line 17	1-8
X	EP 1 062 914 A (QUANTA VISION INC) 27 December 2000 (2000-12-27) paragraph '0001! column 12, line 26 - line 29 paragraphs '0041!, '0042!	1-4, 6-8
P, X	DE 101 27 267 A (SIEMENS AG) 19 December 2002 (2002-12-19) paragraphs '0027!, '0033!, '0034!	1-7

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☒ Further documents are listed in the continuation of box C:☒ Patent family members are listed in annex:

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Knüpling, M

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>STONESTROM J P ET AL: "Scatter considerations in fan beam computerized tomographic systems"</p> <p>IEEE TRANSACTIONS ON NUCLEAR SCIENCE, OCT. 1976, USA,</p> <p>vol. ns-23, no. 5, pages 1453-1458, XP002258471</p> <p>ISSN: 0018-9499</p> <p>page 1457, right-hand column</p> <p>figures 6A, 6B.</p>	1-4, 6
A	<p>US 2 549 987 A (HAMACHER EDWARD A ET AL)</p> <p>24 April 1951 (1951-04-24)</p> <p>figure 1</p>	1, 9

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